रजिस्ट्री सं० डी—(डी एन)—73

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सत्यमेव जयते

# भारत का राजपत्र
# The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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No. 11] NEW DELHI, SATURDAY, MARCH 16, 1985 (PHALGUNA 25, 1906)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके ।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

## [PART III—SECTION 2]

## पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

## (Notifications and Notices issued by the Patent Office relating to Patents and Designs)

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PATENTS AND DESIGNS

Calcutta, the 16th March 1985

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APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

Calcutta, the 16th March 1985

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

7th February, 1985

83/Cal/85. Ross Operating Valve Company. Inline poppet valve.

84/Cal/85. Hein, Lehmann AG. Continuously operating Centrifuge.

8th February, 1985

85/Cal/85. Stanadyne, Inc. Piezoelectric Senor.

86/Cal/85. Hollandse Signaalapparaten B. V. Radar System.

87/Cal/85. Huttenes-Albertus Chemische Werke GMBH. Mould material binding agent system which cold-hardens with formation of polyurethane.

88/Cal/85. Valery Mikhailovich Nazarov and Oleg Vianorovich dogadin. Bridge Amplifier.

89/Cal/85. Didier-Werke AG. Refractory wearing parts for slide gates.

11th February, 1985

90/Cal/85. (1) Valery Mikhailovich Nazarov, (2) Oleg Vianorovich Dogadin. Gating Amplifier.

91/Cal/85. The Lubrizol Corporation. Carbosylic acid derivative/phosphorous-containing acid reaction products and aqueous systems containing same.

92/Cal/85. Reckitt & Colman of India Limited. An improvement in or relating to a process for the preparation of guethol allyl ether.

93/Cal/85. Reckitt & Colman of India Limited. An improvement in or relating to a process for the preparation of guethol allyl ether.

94/Cal/85. Reckitt & colman of India Limited. An improvement in or relating to a process for the preparation of guethol allyl ether.

95/Cal/85. Reckitt & Colman of India Limited. An improvement in or relating to a process for the preparation of ethyl methyl glycidate commonly known as 'Aldehyde C-16".

96/Cal/85. Reckitt & Colman of India Limited. An improvement in or relating to a process for the preparation of allyl caproate.

97/Cal/85. Reckitt & Colman of India Limited. An improvement in or relating to a process for the preparation of ethyl caproate.

98/Cal/85. Reckitt & Colman of India Limited. Improvement in or relating to the process for the preparation of 5, 6-dihydro-2-methyl-N-phenyl-1, 4-oxathiin-3-carboxamide.

99/Cal/85. Westinghouse Electric Corporation. Improvements in or relating to programmable controller having automatic contact line solving.

12th Februarv, 1985

100/Cal/85. The babcock & Wilcox Company. Fused silica diaphragm module for high temperature pressure transducers.

101/Cal/85. Kievsky Politekhnichesky Institut Imeni 50-Letiq Velikoi Oktvabrskoi Sotsialisticheskoi Revoljutsii. Electrode for electric arc-surfacing.

102/Cal/85. (1) Valery Mikhailovich Nazarov. (2) Oleg Vianorovich Dogadin. Power Amplifier.

103/Cal/85. Fletcher Sutcliffe Wild Limited. Scraper chain conveyor system.

104/Cal/85. GEA Luftkuhlergesellschaft Happel GMBH & Co. Apparatus for drawing on transverse ribs.

105/Cal/85. GEA Luftkuhlergesellschafte Happel GMBH & Co. Apparatus for drawing on transverse ribs.

106/Cal/85. Valery Mikhailovich Nazarov. Bridge-type overload-protected amplifier.

13th February, 1985

107/Cal/85. Combustion Engineering, Inc. Wear resistant fuel pipe elbow.

108/Cal/85. Vallourec. A device for protecting threadings and butt-type joint bearing surfaces of metallic tubes.

109/Cal/85. Conoco Inc. Process for improving product yields from delayed coking.

APPLICATION FOR PATENTS FILED AT THE PATENTS OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

21st January, 1985

35/Del/85. Hughes Aircraft Company. "Nonvolatile latch".

36/Del/85. Sulzer Brothers Ltd., "Method of and system for breaking asynchronous motors".

37/Del/85. Armco Inc., "A method of producing boron alloy and a product produced by the method".

38/Del/85. Pfizer Inc., "A process for preparing 1, 1-dioxopenicillanoyloxymethyl 6(2-amino-2-phenylacetamido) penicillanate antibiotics". [Divisional date February 9, 1982]

22nd January, 1985

39/Del/85. Hydra-Tight Limited, "Improvements in and relating to bolt tensioning apparatus". (Convention date January 28, 1984) (U.K.).

40/Del/85. AECI Ltd., "An explosive which includes an explosive emulsion".

41/Del/85. Dearborn Chemical Co., "Stable tannin based polymer".

42/Del/85. Pfizer Inc., "1, 3-disubstituted oxindoles as analgesic and antiinflammatory agents".

43/Del/85. Albert R. Richard, "Eye implant".

23rd January, 1985

44/Del/85. Vacuum Interrupters Ltd., "High current switch contacts".

45/Del/85. The Goodyear Tire & Rubber Co., "Incorporation of functionalized monomers".

46/Del/85. M&I Heat Transfer Products Ltd., "Air valve". (Convention date September 7, 1984) (Canada).

47/Del/85. Alkaloida Vegyeszoti Gyar, "New 1, 2, 4-triazole derivatives and a process for the preparation thereof".

48/Del/85. Hughes Aircraft Company, "Hyperhemispherical radiation system".

49/Del/85. McMichael Ltd., "Si[illegible] for pal colour television [illegible] date January 27, 1984 (U.K.).

50/Del/84. Necchi Societa Per Azioni, " Refrigerant apparatus with a variable performance motor compressor".

51/Del/85. ASA S.A., "Method for producing a fiber-spun yarn".

24th January, 1985

52/Del/85. Suvrat Saigal, "Improvements relating to locking devices".

53/Del/85. Prabhubh Batham; " Acetylene engine".

25th January, 1985

54/Del/85. DE LA RUE GIORI S.A. "Combined rotary printing machine".

55/Del/85. DE LA RUE GIORI S.A., " Method of fixing and adjusting a printing plate on a plate cylinder and device for carrying out the method".

56/Del/85. DE LA RUE GIORI S.A., "Rotary press for the simultaneous multicolor printing of both sides of a web or sheet".

57/Del/85. DE LA RUE GIORI S. A., "Rotary multicoluor machine for simultaneously printing both sides of a paper web or sheet".

58/Del/85. DE LA RUE GIORI S.A., "Combined sheet fed rotary printing machine for securities, in particular bank notes".

59/Del/85. Council of Scientific and Industrial Research, "A process for making new absorbable haemostatic dressing from tamarind seed polyose".

60/Del/85. Council of Scientific and Industrial Research, "Process for the preparation of a catalyst comsite material".

61/Del/85. Council of Scientific and Industrial Research, Process for the preparation of a catalyst useful for the selective conversion of ethylene into aromatic hydrocarbons containing 6 to 8 carbon atoms".

62/Del/85. DE LA RUE GIRI S.A., "Multicolour rotary printing machine'.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

21st January, 1985

47/Mas/85. C. Ramachandran. Converting three diamentional 35mm cinematographic film reel as two diamentional film.

48/Mas/85. C. Ramachandran. An improved three diamentional movie.

49/Mas/85. Mitsuboshi Belting Lad. Power transmission belt.

50/Mas/85. Quamco, Inc. Cut-off style, roll thread flat dies.

22nd January, 1985

51/Mas/85. Tri-steel Inc., Pole structure with diagonal inner bracing.

52/Mas/85. Lonza Limited. Process for the preparation of tetronic acid.

53/Mas/85. S. Balakrishnan. Filter press cum polumetric bottle filling machine.

23rd January, 1985

54/Mas/85. FMC Corporation. Communication system by-pass architecture.

55/Mas/85. FMC Corpration. Synchronous/Asynchronous Communication System.

56/Mas/85. Klinger AG. Shut-off valve.

57Mas/85. Mannesmann Aktiengesellschaft. Process for the preparation of coal our burning in large-scale firing installations.

24th January, 1985

58/Mas/85. Lucas Industires Public Limited Company. Brake Actuator. (February 2, 1984; United Kingdom).

59/Mas/85. Krithi Iindustrits. An improved external threaded and coupling for use in the submersible electric motor body.

60/Mas/85. Krithi Industries. An improved and silmplified submersible electric motor fabricated body made out of non corrosive sheet metal especially stainless steel.

61/Mas/85. A. H. Robins Company, Incorporated. Process and intermediates for the preparation of aryl substituted pyrido [1, 4] Benzodiazepines.

62/Mas/85. Allied Colloids Limited. Production of polymeric thickeners and their use in printing.

63/Mas/85. Michelin & CIE. An assembly formed by an apparatus for measuring forces and by an adjustable removable means. (Divisional to Patent Application No. 429/Cal/83).

25th January, 1985

64/Mas/85. C. P. Muhammad. Improvements in or relating to a dart syringe.

65/Mas/85. A. H. Robins Company, Incorporated. Fused aromatic oxazepinones, thiazepinones, diazepinones and sulfur analogs thereof.

66/Mas/85. W. L. Core & Associates, Inc., A gas filter cartridge.

67/Mas/85. Conoco Inc. Method and apparatus for automated de-coking.

28th January, 1985

68/Mas/85. S. Prakasam. Display system paper pouch tangler.

69/Mas/95. Dr. M. P. George. Ground-controlled electromechanical palm tree climber for harvesting and pest control.

70/Mas/85. H. S. Yogendra. Solar system pump.

71/Mas/85. BBC Brown, Boveri & Company Limited. Bottom electrode arrangement for an electric furnace.

72/Mas/85. BBC Brown, Boveri & Company Limited. Bottom electrode for a direct current arc furnace.

73/Mas/85. Institut Francais Du Petrole and Magyar Szenhidrogenipari Kutato-Fejleszto Intezet. An enhanced oil recovery process by injecting a micellar solution of surfactants having a solybility gradient in water.

29th January, 1985

74/Mas/85. S. Sundaram & Ceat Tyres of India Ltd. A load-bearing fibreglass reinforced plastic overhead panel cover for use in trenches and structures and a method of making the same.

75/Mas/85. S. Sundaram & Ceat Tyres of India Ltd. A fibreglass reinforced plastic grid providing a monskid surface on sandy, marshy or like yielding soil and a method of making the same.

76/Mas/85. S. Sundaram & Ceat Tyres of India Ltd. A fibreglass reinforced plastic gas holder for use in biogas systems and a method of making the same.

77/Mas785. T. N. Mahesh. Solar cooker.

78/Mas/85. KenoGard AB. A minoalkanephosphonic acids and derivatives thereof as fungicidal agents.

79/Mas/85. Festo-Maschinenfabrik Gottlieb Stoll. A circuit board.

80/Mas/85. Toshin Kogyo Co. Ltd. A method and unit for washing screen stencil frame in flat screen printing machine.

30th January, 1985

81/Mas/85. A. Gnanasekaran. Smooth surface finishing of barthern clay tiles and burnt bricks and hollow block brick.

82/Mas/85. P. N. Rao & P. Suryaprabha. An improved dual purpose pressure cooker for cooking food as well as for preparing beverages.

83/Mas/85. Antex (Electronics) Limited. Heatable tool for heating pipe connector sleeves.

84/Mas/85. Framatome & CIE, Charbonnages De France & Institut Francais Du Petrole. Tube-type heat exchanger.

85/Mas/85. Snia BPD S.p.A. & Chimica Del Friuli S. p. A. A method of purifying caprolactam.

31st January, 1985

86/Mas/85. The Dow Chemical Company. Polyfunctional phenolic reaction products, process for its preparation and its use.

87/Mas/85. The Dow Chemical Company. Epoxy resin composition and a process for preparing laminates therefrom.

1st February, 1985

88/Mas/85. Fluidrive Engineering Company Limited. Fluid copulings. (February 3, 1984; United Kingdom).

89/Mas/85. George Edward Roberts & Robert Lincoln Waddington. Clamp.

2nd February, 1985

90/Mas/85. Sanden Corporation. Capacity control device for a refrigerant compressor with capacity adjusting mechanism.

## ALTERATION OF DATE

155858. (351/Cal/83). Ante dated to 26th September, 1978.

## COMPLETE SPECIFICATION ACCEPTED

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CLASS : 9-F. 155819.

Int. Cl. C 22 c 39/00, 39/04.

METHOD OF PREPARING A REFINED SILICON STEEL MELT FOR SEMI-PROCESSED AND FULLY PROCESSED SILICON STEELS.

Applicant : ARMCO STEEL CORPORATION, AT 703 CURTIS STREET, MIDDLETOWN, OHIO, UNITED STATES OF AMERICA.

Inventors : 1. JAMES DAVID EVANS, 2. WILLIAM REA LONG, JR.

Application No. 680/Cal/76 filed April 20, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A method of preparing a refined silicon steel melt for semi-processed and fully processed cold rolled, non-oriented silicon steels, comprising the steps of melting a heat of silicon steel, tapping said melt into a ladle, adding ferro-silicon, ferro-manganese silicon and aluminium for deoxidizing an dalloying purposes, mixing said melt by argon stirring, and subjecting said melt to a vacuum degassing treatment, characterized by the steps of adding aluminum and a substance chosen from the class consisting of a rare earth metal and a are earth metal compound for final deoxidation and desulfurization of said melt, continuing said vacuum degassing treatment for a period of time sufficient for at least one complete volume exchange within said ladle to permit adequate flotation of inclusions formed during said final deoxidation and desulfurization, said refined melt comprising, in percent by wtight, from 0.5% to 4% silicon, an effective amount of up to 0.8% aluminum, from 0.05% to 0.5% manganese, 0.012% maximum sulfur, up to 0.1% maximum carbon and an efftctive amount of up to 400 ppm cerium, the balance being iron.

Compl. Specn. 14 pages. Drgs nil.

CLASS : 89. 155820.

Int. Cl. : G 01 l 9/00.

IMPROVED CASING FOR A FLUID-IMMERSED PRESSURE GAUGE.

Applicant : DRESSER INDUSTRIES, INC., OF THE DRESSER BUILDING, P.O. BOX 718, DALLAS, TEXAS-75221, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD HARRY WETTERHORN.

Application No. 1377/Cal/76 filed August 2, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

An improved casing for fluid-immersed pressure gauge of the kind described herein adapted to compensate for changes in the volume of the fluid brought about by fluctuations of temperature, which comprises a substantially cup-shaped member filled with fluid in which the pressure gauge is immersed, the rim of the open end of the cup being formed with an outwardly directed flange and said open end being a sealed in fluflid-tight manner by means of a transparent crystal the periphery of which coincides with the flangt of the rim of the cup-shaped member, first anular sealing means interposed between the periphery of the crystal and the said flange and external resilient annular sealing means secured to the outside edge of said flange and extending axially upward thereof, the upper end of said external sealing means comprising a radially inwardly directed flange a adapted to engage peripherally the upper surface of the crystal and maintain it in fluid-tight relationship against the rim of the cup-shaped member, said crystal having a predetermined controlled volumetric stiffness in relation to the anticipated changes in volume of the fluid effected by temperature fluctuations and a specific volume stiffness as htrein defined of less than about 0.1 psi per percent volume increase as herein defined of the fluid.

Compl. Specn. 13 pages. Drgs. 2 sheets.

CLASS : 32-$F_2$. 155821

Int. Cl. : C07 c 109/12.

NEW METHOD OF PREPARING AZINES.

Applicant : PRODUITS CHIMIQUES UGINE KUHLMANN, OF 25, BOULEVARD DE l'AMIRAL BRUIX, 75116 PARIS, FRANCE.

Inventors : 1. JEAN-PIERRE SCHIRMANN, 2. JEAN COMBROUX, 3. YVON DELAVARENNE.

Application No. 1492/Cal/76 filed August 16, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Method of preparing azines of the general formula

$$\begin{matrix} R_1 \\ C \\ R_2 \end{matrix} = N - N = \begin{matrix} R_1 \\ C \\ R_2 \end{matrix}$$

in which $R_1$ and $R_2$, identical or different, represent a hydrogen atom, a linear alkyl radical having 1 to 12 carbon atoms, a branched alkyl or cycloalkyl radical having 3 to 12 carbon atoms or a hydrocarbon radical having 6 to 12 carbon atoms and comprising an aromatic mucleus or together represent a linear or branched alkylene radical having 3 to 11 carbon atoms, these radicals being unsubstituted or substituted by at least 1 chlorine, bromine or fluorine atom, or

by a nitro, hydroxy, alkoxy or ethylene group or a carboxylic ester, which process comprises reacting in liquid phase hydrogen peroxide with ammonia in the presence of (i) a carbonyl, aldehyde or ketone compound of the formula

$$\begin{matrix} R_1 \\ C = O \\ R_2 \end{matrix}$$

wherein $R_1$ and $R_2$ are as defined above, (ii) an amide of a monocarboxylic acid the ionisation constant of which is less than $5.10^{-5}$ or an amide of a dicarboxylic acid at least one of the carboxylic functions of which has an ionisation constant less than $5.10^{-5}$ and (iii) a mineral or organic catalyst having the atoms chain H — X — Y — Z, in which H represents a hydrogen atom, X and Z are oxygen or nitrogen atoms and Y is a carbon, nitrogen, arsenic, antimony, phosphorus, sulphur, selenium or tellurium atom, X, Y and Z being able to carry other substituents so that the valency rules are respected, characterised in that the reaction is effected in the additional presence of the ammonium salt of the mono or di-carboxylic acid corresponding to the above-defined amide.

Compl. specn. 17 pages. Drgs. Nil.

CLASS : 40F. 155822

Int. Cl. : B01 j 1/00, 6/00.

FLUID BED REACTOR HAVING PIER-SUPPORTED REFRACTORY CONSTRICTION ELEMENT.

Applicant : DORR-OLIVER INCORPORATED, OF 77 HAVEMEYER LANE, STAMFORD, CONNECTICUT 06904, UNITED STATES OF AMERICA.

Inventor : 1. ERNEST THOMPSON MOOREY.

Application No. 1655/Cal/76 filed September 8, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A fluid bed reactor comprising a reaction chamber, a hot windbox having a bottom wall, said hot windbox being partitioned from said reaction chamber by a refractory constriction element, said constriction element as described herein having a diameter greater than twenty feet (6.1 meters) and adapted to support thereon a body of particulate solids subject to fluidization, a plurality of elongated load-bearing refractory piers extending between said bottom wall and said constriction element to support said element, said piers extending into contact with positioning means provided on said constriction element, said piers each having a longitudinal passageway therethrough for alignment with vertical mating passageways in said bottom wall and said constriction element, and vertical fuel guns positioned in at least some of said aligned passageways for introducing fuel into said reaction chamber.

Compl. specn. 13 pages. Drgs. 2 sheets.

CLASS : 97B. 155823

Int. Cl. : B01k 3/02, 3/08; G01n 27/30.

A CARBON OR GRAPHITE ELECTRODE SUITABLE FOR USE IN AN ELECTRICAL ARC-FURNACE AND PROCESS FOR PRODUCING THE SAME.

Applicant : C. CONRADTY NURNBERG GmbH & CO KG, OF D-8505 ROTHENBACH a.d. PEGNITZ, GRUNTHAL, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. FRANZ SCHIEBER.

Application No. 1796/Cal/76 filed September 28, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

33 Claims

A carbon or graphite electrode suitable for use in an electrical arc-furnace having a surface which has at least one longitudinally extending slot extending to the inside of the electrode, which slot is filled with an adherent mass of carbonaceous or inorganic heat-resistant filler material which inhibits the side-wall oxidation.

Compl. specn. 23 pages. Drgs. 3 sheets.

CLASS : 6-B$_3$: 80-I 155824

Int. Cl. : B 01 d 23/04, 23/14.

FRAME ASSEMBLY FOR SUPPORTING A FIBERGLASS BAG FILTER ADAPTED TO REMOVE PARTICULATE SUBSTANCES FROM AERIFORM STREAMS.

Applicant : ASHLAND OIL, INC. OF P.O. BOX 391, ASHLAND, KENTUCKY 41101, UNITED STATES OF AMERICA.

Inventor : WADE E. BALLARD.

Application No. 1854/Cal/76 filed October 8, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A frame assembly for tautly supporting a fiberglass bag filter adapted to remove particulate substances from aeriform streams comprising, in combination :

a fiberglass bag filter;

an elongated cylindrical wire mesh cage;

a metal cap rigidly attached to one end of said cage having its closure face offset inwardly with respect to the outside periphery of the cage so as to provide a narrow recessed rim thereat;

a stationary metallic thimble encasing said tubular collar having a lip whose peripheral edge is juxtaposed with respect to the collar end adjoining said cage; and

means for movably suspending said collar from said thimble and whereby the collar can be fixedly positioned longitudinally with respect to said thimble.

Compl. specn. 9 pages. Drg. 1 sheet.

CLASS : 32-F$_3$ (a) 155825

Int. Cl. : C 07 c 69/82.

PROCESS FOR OBTAINING DIMETHYLTEREPHTHALATE.

Applicant : RHONE POULENC TEXTILE, OF 5 AVENUE PERCIER, 75008 PARIS, FRANCE.

Inventors : 1. JACQUES DELATTRE, 2. ROLAND RAYNAUD, 3. CLAUDE THOMAS.

Application No. 2192/Cal/76 filed December 13, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

Process for obtaining dimethyl terephthalate, which comprises subjecting a bis-(diol) terephthalate to interchange in a substantially anhydrous medium containing a large stoichiometric excess of methanol in the presence of magnesium methylate as catalyst.

Compl. specn. 19 pages. Drg. Nil.

CLASS : 144-A 155826

Int. Cl. : B 29 d 9/08.

IMPROVEMENTS IN OR RELATING TO RESIN COATED METAL SUBSTRATES.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN-80, FEDERAL REPUBLIC OF GERMANY.

Inventor : GORHARD JOHANNES.

Application No. 2213/Cal/76 filed December 16, 1976.

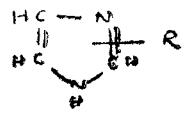
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

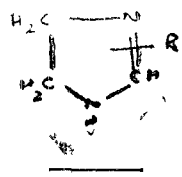
51 Claims

A metal substrate in the form of a pipe, a container or construction equipment. said substrate being coated with a hardened epoxy resin composition comprising :

(A) a solid epoxy resin based on epichlorohydrin and 4, 4'-diphenylol-propane or 4, 4'-diphenylolmethane or both;

(B) from 0.1 to 12%, by weight based on the weight of component (A), of ($B_1$) a compound of formula I or II shown in the accompanying drawing,





(wherein R represents a hydrogen atom) or ($B_2$) an adduct of at least one compound of the formulae (I) and (II) (wherein R represents a hydrogen atom, or an alkyl group having 1 to 6 carbon atoms, or a hydrocarbon group having 6 to 10 carbon atoms and having at least one aromatic moiety) with an epoxy resin of low molecular weight having an epoxy equivalent of from 50 to 2000; (C) a flow agent; (D) a thixotropic agent such as herein described, and it desired (E) a pigmtnt such as herein descirebed.

Compl. specn. 31 pages. Drg. 1 sheet.

CLASS : 9-B 155827

Int. Cl. : C 22 c 23/00.

A METHOD OF MAKING MAGNESIUM ALLOYS AND A METHOD OF MAKING CAST PRODUCTS FROM THE ALLOY SO OBTAINED.

Applicant : MAGNESIUM ELEKTRON LIMITED, OF LUMN'S LANE, CLIFTON JUNCTION, SWINTON, MANCHESTER M27 2LS, ENGLAND.

Inventors : 1. WILLIAM UNSWORTH, 2. GORDON FOWLER, 3. JOHN FREDERICK KING, 4. STEPHEN LEE BRADSHAW.

Application No. 2225/Cal/76 filed December 18, 1976.

Convention dated 22nd December, 1975 (52485) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A method of making a magnesium-based alloy which comprises alloying together the following composition consisting, apart from impurities, of :

| | |
|---|---|
| Magnesium | at least 80% by weight |
| Zinc | 4—7% by weight |
| Rare earth metals | 1–5% by weight |

the rare earth metals containing at least 60% by weight of neodymium and substantially no cerium or lanthanum.

Compl. specn. 20 pages. Drg. Nil.

CLASS : 85-B & J 155828

Int. Cl. : F 27 b 15/00, 15/02, 15/04.

IMPROVEMENTS IN REFRACTORY CONSTRICTION DOME FOR FLUICIZED BED REACTOR.

Applicant : DORR-OLIVER INCORPORATED, OF 77 HAVEMEYER LANE, STAMFORD, CONNECTICUT-06904, UNITED STATES OF AMERICA.

Inventors : 1. ANDREW BEAUMONT STEEVER, 2. RICHARD ERNEST SVENCER.

Application No. 2248/Cal/76 filed December 22, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A fluidized bed reactor having a refractory-lined widewall, a refractory constriction dome comprising a plurality of concentric courses of refractory brick, means supporting said refractory construction dome in a position dividing the interior of said reactor into a reaction chamber and a windbox, a layer of refractory brick in said constriction dome arranged in the form of a reverse arch dome to resist upwardly directed forces imposed on said constriction dome, a ring of skewback refractory brick imbedded in said reactor sidewall, said skewback refractory brick engaging the outer periphery of said reverse arch dome to support said dome against said upwardly directed forces, said ring of skewback refractory brick having an inner oblique face, opening downwardly and contacting a mating face provided on the outer periphery of said reverse arch dome.

Compl. specn. 12 pages. Drg. 1 sheet.

CLASS : 186-A; 206-G 155829

Int. Cl. : H 04 j 1/00; H 04 m 3/00.

RECEIVER APPARATUS FOR DETECTION OF TWO VOICE FREQUENCIES IN A MULTIFREQUENCY TONE SIGNAL.

Applicant : TELEFONAKTIEBOLAGET L M ERICSSON, OF S-126 25 STOCKHOLM, SWEDEN.

Inventors : 1. BENGT ROLAND CARLQVIST, 2. ANDERS GUNNER ERIKSSON.

Application No. 2274/Cal/76 filed December 28, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Receiver apparatus for detection of at least two voice frequencies in an incoming tone signal at MEC-signalling unsensible to disturbance, including a number of parallel connected signal paths equal to the number of the possible voice frequencies in the incoming tone signal, each signal path comprising a bandpass filter tuned to a certain voice frequency, a rectifier and an analog signal comparator for comparing the signal obtained fornt the rectifier with a reference signal produced by a reference rectifier, charac-

terized in that the reference rectifier consists of a first signal path including a first circuit arrangement (RLT, DF1) in order to create a first signal level (Ud) in dependence on the incoming signal level for comparison with a signal (for example U1) obtained from one of said rectifiers (RL1-RL6), a second signal path including a second signal level in dependence on the incoming signal level (Umd) but of lower value than said first signal level (Ud), and that a number of rectifying paths (D11-D16) is connected between the output of each signal comparator (SC1-SC6) and said first signal path in order to block the output signal from the first signal path in dependence on said comparison, so that a new comparison is carried out between the output signal obtained from the second signal path and a signal (for example U2) obtained from another of said rectifiers (RL2-RL6).

Compl. specn. 16 pages. Drg. 3 sheets.

CLASS : 32-A; 32-$F_3$ (c) 155830

Int. Cl. : C 07 c 15/00; C 07 c 39/06.

CUMENE PRODUCTION.

Applicant : UOP INC. AT TEN UOP PLAZA—ALGONGUIN AND MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, U. S. A.

Inventor : DENNIS JOHN WARD.

Application No. 109/Cal/77 filed January 27, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A process for the production of cumene which comprises the steps of :

(a) reacting propylene with an excess of benzene in the presence of an alkylation catalyst at alkylation reaction conditions in an alkylation reaction zone;

(b) dividing the total liquid effluent of said zone into at least two portions of like composition;

(c) recirculating one of said portions of the effluent to said reaction zone;

(d) introducing another of said portions of said effluent and a transalkylation zone effluent stream, formed as hereinafter set forth, into a separation zone;

(e) separating from the admixed effluents in the separation zone a bezene-rich stream, a cumene product stream and a di-and triisopropylbenzene-rich stream;

(f) transalkylating the last named stream with benzene in the presence of a transalkylation catalyst in a transalkylation zone to form additional cumene;

(g) supplying the effluent of the last mentioned zone to said separation zone as said transalkylation zone effluent stream;

(h) passing at least a portion of said benene-rich stream from the separation zone to said alkylation reaction zone; and

(i) recovering said cumene product stream from the separation zone.

Compl. specn. 20 pages. Drg. 1 sheet.

CLASS : 63-I; 190-D 155831

Int. Cl. : H 02 j 5/00.

GEOPHYSICAL ENERGY SOURCE UTILIZATION CIRCUIT.

Applicant & Inventor : ALAN WYANT WILKERSON, OF 410 MADERO DRIVE, THIENSVILLE, WISCONSIN-53092, UNITED STATES OF AMERICA.

Application No. 373/Cal/76 filed March 1, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

A geophysical energy source utilization circuit suitable for energizing an a.c. load coupled to a.c. power mains comprising :

conversion means responsive to the energy of the geophysical source for converting the energy into a corresponding amount of d c. electrical power having a unipolarity voltage characteristic and for providing same to output terminals of the conversion means;

switching means having a first terminal means coupled to said output terminals of said conversion means and a second terminal means connectable of said a.c. load and across the a.c. power mains for receiving aperiodically varying voltage from the a.c. power mains, said switching means including controllable current conduction means interposed between the first and second terminal means for allowing the polarity of the unipolarity voltage to remain unchanged and for conducting current from said first terminal means to said second terminal means; and

control means coupled to said switching means for rendering said controllable current conduction means conductive for establishing a current flow at said second terminal means during periods when the voltage on said second terminal means causes said utilization circuit to comprise an electrical power source for the a.c. load for providing a net supply of power from the utilization circuit to the a.c. load.

Compl. specn. 35 pages. Drg. 4 sheets.

CLASS : 49-F & H; 180 155832

Int. Cl. : A 47 j 27/00, 35/00.

PORTABLE COOKING UNIT HAVING FOLDING TRAYS FOR USE WITH CHARCOAL OR SIMILAR FUEL.

Applicant : SON OF HIBACHI LIMITED, AT 10035 N.E. SANDY BOULEVARD, PORTLAND, OREGON 97220, UNITED STATES OF AMERICA.

Inventor : CHARLES RADCLIFFE WHITE.

Application No. 1736/Cal/76 filed September 20, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A portable cooking unit for use with charcoal or similar fuel comprising :

(a) a frame.

(b) dished fuel trays pivotally joined to the frame and positionable between a raised substantially vertical lighting position in which the fuel trays are located adjacent one another and a lowered substantially horizontal cooking position;

(c) the fuel trays having open upper ends and open lower ends to form a flue allowing air passage therethrough when the fuel trays are in their raised position;

(d) grill support means located within the dished fuel trays, and

(e) perforate grills removably positionable in the grill support means in a manner to provide a fuel retention space therebetween for receiving the fuel.

Compl. specn. 18 pages. Drg. 2 sheets.

CLASS : 25-D 155833

Int. Cl. : F 27 d 1/04.

SLABS FOR USE IN LINING CONTAINERS.

Applicant : FOSECO TRADING A.G., OF LANGEN-JOHNSTRASSE 9, 7000 CHUR, SWITZERLAND.

Inventor : DANIEL MAURICE MASSIN.

Application No. 2015/Cal/76 filed November 9, 1976.

Convention dated 10th November, 1975 (46434/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A slab having two substantially planar substantially parallel major faces, and two opposite regularly castellated edges, the edges having a length that is large relative to the thickness of the slab :

said castellated edges including a plurality of teeth with slots defined between the teeth, said slots extending from one major face to the other, each said tooth having a base and a top, and having a pair of opposite sides that are not disposed in the plane of said major faces the top of each tooth being substantially of the same dimension as the spacing provided by each slot between the teeth, said teeth sides being inclined in a direction skew to the plane of a major face of the slab, and

said castellated edges being so arranged that two identical slabs may be interengaged side by the side with their respective major faces disposed in the same planes, with their castellations interengaged and with the respective edges extending between the castellated edges in alignment, by moving one slab relative, to the other in a plane parallel to the plane of one of said major faces.

Compl specn. 17 pages. Drgs: 3 sheets.

CLASS : 154-G 155834

Int. Cl : B 41 n 1/24.

SCREEN-TYPE PRINTING STENCIL.

Applicant : K ITEN AG., OF BERNSTRASSE 6, 8964 RUDOLFSTETTEN, SWITZERLAND.

Inventor : WALTER ALOIS ITEN.

Application No 2031/Cal/76 filed November 11, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A screen-type printing stencil having therein plural holes through which passes printing material during a printing operation characterised by written :

said plural holes are arranged in an overall pattern which is formed by the repetition of the arrangement of a primary pattern, said primary pattern comprising at least three holes with one hole having the configuration of an equilateral polygon and at least two elongated holes, said holes of said primary pattern being arranged with respect to each other such that no two of said holes may be brought into coincidence or superimposition with respect to each other upon the rectilinear shifting or one with respect to the other.

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 83-B$_3$ 155835

Int Cl. : A23l 1/20.

METHOD AND APPARATUS FOR THE CONTINUOUS PRODUCTION OF THERMALLY PROCESSED FOOD SLURRIES.

Applicant : JAMES WINFIELD GARDNER ENTERPRISES, INC 10 WEST 10TH STREET, TYRONE, PENN. 16686, A NORTH CAROLINA CORPORATION

Inventor : HUBERT HARRIS

Application No 1298/Cal/81 filed November 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

28 Claims

The method of producing a slurry from peanuts soyabeans and the like, comprising the steps of :

(a) continuously reducing said nuts or beans to a paste form;

(b) continuously forming said paste into a strand;

(c) continuously delivering said strand along a first path adpacent a foraminous support;

(d) continuously delivering under pressure a flow of liquid as herein described along a second path generally perpendicular to and intersecting said first path whereby said strand is forced through said support and mixed with said liquid to form a slurry; and

(e) pumping said slurry away from said support at a rate sufficient to prevent the flooding of said support and to maintain a relatively low pressure zone proximate to said support.

Compl. specn 33 pages Drgs. 2 sheets.

CLASS : 32-F$_1$ 155836

Int. Cl : C 07 c 87/68.

PROCESS FOR THE MANUFACTURE OF MINERAL ACID SALT OF DIPHENYL BASES

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KURT RODENBENNER, 2. MANUEL DURRUTI-CUBRIA, 3 ROLF WOERNLE.

Application No 21/Cal/82 filed January 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

4 Claims

A process for the manufacture of a hydrochloric acid salt of a diphenyl base by rearrangement of the corresponding hydrazoaromatic compound with hydrochloric acid in the water-immiscible aromatic solvent such as herein described which comprises introducing gaseous hydrogen chloride in admixture with steam and an inert gas to the solution of the hydrazo compound in the aromatic solvent and wherein from 0.5 to 3.2 mols of water per mol of acid are used and the process is carried out at a temperature of 0°C to 50°C.

Compl specn 7 pages Drgs Nil.

CLASS : 116-D 155837

Int Cl : B 66 c 1/12

A SELF-TIGHTENING AND SELF-LOCKING SLING FOR LOADING/UNLOADING GOODS PACKED INTO BAGS.

Applicant : N. V. TRANSWORLD MARINE AGENCY CV S. A. OF VAN SCHOONBEKEPLEIN 6 2000 ANTWERPEN BELGIUM

Inventor : EUGENE JULES PIERRE COLSON

Application No 95/Cal/82 filed January 22 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Calcutta

2 Claims

A self-tightening sling for unit loads of bagged material comprising distinct bottom and top parts made of webbing, the bottom part having a clover-leaf configuration, said top part having a two-loop configuration, each loop of which being shaped into two sub-loops when the sling is placed on an around a unit load, each of said sub-loops being tied to a loop of the bottom part by a self-locking sliding knot and including an exposed portion projecting from said knot and forming a hoisting loop, whereby four knots and four hoisting loops are formed.

Compl. specn. 6 pages. Drgs. 2 sheets.

CLASS : 32-$F_1$ & 55-F 155838

Int. Cl. : C 07 d 7/00; A 61 b 10/00.

A PROCESS FOR PREPARING AN ALCOHOL SOLUBLE EOSIN FOR STAINING BLOOD FILMS.

Applicant & Inventors : DR. ARUN KRISHNA CHATTERJEE AND DR. (MRS.) MEENA CHATTERJEE, BOTH OF E/4, BELGACHIA VILLA, CALCUTTA-700 037, WEST BENGAL, INDIA.

Application No. 38/Cal/83 filed January 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process of preparing an alcohol soluble eosin for staining blood films, which process comprises reacting an 2% aqueous solution of eosin (yellow) with common alum and boric acid in a preferred proportion of 1 : 5 : 5 by weight boiling and filtering the mixture to separate out the eosin (brick red) precipitate which is dried at 50°C. inside an incubator to obtain the alcohol soluble eosin in powder form.

Compl. specn. 8 pages. Drgs. 1 sheet.

CLASS : 36-$A_3$. 155839

Int. Cl. : F 04 d 29/00.

CENTRIFUGAL FAN IMPELLER.

Applicants : 1. DONETSKY POLITEKHNICHESKY INSTITUT, OF DONETSK, ULITSA ARTEMA, 58, USSR; AND 2. DONETSKY GOSUDARSTVENNY PROEKTNO-KONSTRUKTORSKY I EXPERIMENTALNY INSTITUT KOMPLEXNOI MEKHANIZATSII SHAKHT, OF DONETSK, ULITSA ARTEMA, 157, USSR.

Inventors : 1. VITOLD VITOLDVICH PAK, 2.. VIKTORIA IONOVNA KOVALEVSKAYA, 3. VLADIMIR ANDREEVICH SPIVAK, 4. VALERY PROKOFIEVICH PEREDERY.

Application No. 196/Cal/82 filed February 19, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A centrifugal fan impeller comprising a front disk and a rear disk, disposed in a coaxial relation, for transfer of gas flow being secured within the discs and means for varying the profile of the blades, the number of said means corresponding to at least a part of the number of the blades, said means being disposed symmetrically with respect to the axis of the impeller, each of the means for varying the profile being a flexible flat member mounted on a corresponding blade and bent in the plane of the profile of the blade so that said member has in its cross-section the configuration of a loop.

Compl. specn 26 pages Drgs. 3 sheets.

CLASS : 32-$F_2$ (c). 155840

Int. Cl. : C 07 c 127/00, 127/02.

IMPROVEMENT IN OR RELATING TO UREA SYNTHESIZING PROCESS.

Applicants : TOYO ENGINEERING CORPORATION AND MITSUI TOATSU CHEMICALS, INCORPORATED, BOTH OF NO, 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. MORIHISA HIDAKI, 2. TATEAKI DEGUCHI, 3. KEIICHI MATSUMOTO.

Application No. 323/Cal/81 filed March 25, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

An improved process for synthesizing urea using conventional raw materials and the conventional equipments characterised by the improvement that the portions of the equipment which come in contact with the highly corrosive processing fluid ape provided with a layer of silicon carbide.

Compl. specn. 7 pages. Drgs. 1 sheet.

CLASS : 155-A & F. 155841

Int. Cl. D 04 h 1/00; D 03 d 1/00; D 06 m 11/00, 13/00.

A FLAME RETARDANT COATED FABRIC SUITABLE FOR USE IN THE MANUFACTURE OF DRAPABLE FABRIC ARTICLES AND A METHOD FOR MAKING SAME.

Applicant : DANIEL FERZIGER, OF 4515 GREYSTONE AVENUE, RIVERDALE, N.T. 70471, UNITED STATES OF AMERICA.

Inventor : JERRY LIPPMAN.

Application No. 797/Cal/81 filed July 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A flame retardant coated fabric suitable for use in the manufacture of drapable fabric articles such as mattress tickings, bedspreads, curtains or the like, comprising a single base layer of a tightly-woven fiberglass fabric having on at least one surface thereof a cured unfoamed coating of a flame retardant and plasticized polymeric coating composition, said cured coating having been formed by applying said coating composition directly to and over the entire surface of the fiberglass fabric base and thereafter curing said composition, wherein said cured coating is the outermost surface layer of said fabric product, and is present in an amount sufficient to make said fiberglass fabric base non-abrasive and abrasion resistant, and the coated fabric sewable and drapable.

Compl. specn. 23 pages. Drgs. Nil.

CLASS : 35-B. 155842

Int. Cl. C 04 b 7/44.

METHOD OF AND APPARATUS FOR THE PRODUCTION OF BULK MATERIALS LIKE CEMENT.

Applicant : F. L. SMIDTH & CO. A/S., OF 77, VIGERSLEV ALLE, DK-2500 VALBY, COPENHAGEN, DENMARK.

Inventor : JOHN TOUBORG.

Application No. 1213/Cal/81 filed October 31, 1981.

Convention dated 25th November 1980 (8037729) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Method for the production of bulk materials like cement by treating granulated or pulverous raw materials like clay and lime in a stationary or nearly stationary kiln plant, which plant comprises a stationary burning installation before which are coupled partly a preheating zone and partly a precalcination zone for preheating and precalcining in suspension the treated *raw materials*, and after which is coupled a cooler, and where the precalcined *raw materials* are separated from smoke gases in at least one separator adjacent to the precalcination zone, characterized in that the precalcin separated *raw materials are* divided into two separate subsidiary material flows, one subsidiary flow being suspended in spent cooling air and fed to the burning installation 6, 60 for burning in suspension and melting, the melt and the smoke gases hence being fed to a cyclone 5 for separation, from which cyclone the melt is led to a rotating nodulisation drum 7 coupled after the cyclone 5, while the smoke gases are led to the precalcination zone 3 as combustion air, and the other subsidiary powdery flow being fed directly to the inlet of the drum 7, to be mixed in same drum with the melt, the mix being subjected to a final *thermal* reaction *through the heat from the melt* and a nodulisation during its retention in the drum before the thus treated mix after *the* nodulisation is led to the cooler 8

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 24-B. 155843

Int. Cl : F16 d 65/00.

AN ANNULAR DISC FOR USE IN A MULTIPLE-DISC BRAKE.

Applicant : MASSEY-FERGUSON SERVICES N. V., ABRAHAM DE VEERSTRAAT 7A, CURACAO, NETHERLANDS ANTILLES

Inventor : 1. FREDERICK S. DOWELL.

Application No. 1269/Cal/81 filed November 16, 1981.

Convention dated 26th November, 1980 (8037881) U.K. 26th November, 1980 (8037938) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An annular disc for use in a multiple-disc brake, the disc having an annular friction band which is split into a number of generally adequately-shared areas of friction contact by a series of circumferentially spaced generally radially extending slots which pass completely through the disc in an axial sense, each slot opening through a periphery of the disc and being defined by two edges which extend away from said periphery radially across the friction band and terminating at locations outside the friction band, said edges being inclined to each other and not lying on radii of the disc so that the slot will execute a scissors-like action when passing over the slots in a similar cooperating disc during a brake application thus reducing torque fluctuations and wear.

Comrl. specn. 16 pages. Drgs. 4 sheets.

CLASS : 85-T. 155844.

Int. Cl. B 08 b 1/04 7/04; F 27 d 23/02.

A DEMOLITION MACHINE PARTICULARLY FOR USE IN SOAKING PITS IN STEEL MAKING PLANTS.

Applicant & Inventor : LOUIS ANTHONY GRANT, OF 788 SALTSBURG ROAD, PITTSBURGH, PENNSYLVANIA, UNITED STATES OF AMERICA.

Application No. 1328/Cal/81 filed November 25, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A demolition machine for removing hard debris accumulated on the bottom of soaking pits in steel making plants comprising in combination a supporting framework, a pair of outrigger assemblies being arched plate means extending generally parallel to the adjacent side of said supporting framework, means such as operating cylinders extendibly mounting said outrigger assemblies on opposite sides respectively of said supporting frame work for longitudinally outward extension of said outrigger assemblies bevond said sides of the supporting framework, a clamping mechanism such as herein defined mounted on each of said outrigger assemblies for movement therewith for clamping an external support for said framework between said clamping mechanism and one of the associated assemblies, and means as herein defined for movably mounting a tool supporting member on said supporting framework.

Compl. specn. 26 pages. Drg. 4 sheets.

CLASS : 74: 155-$F_2$ & E 155845

Int. Cl. : D 03 d 1/04.

A PROCESS FOR PRODUCING SACKS AND CONTAINERS FROM JUTE FABRICS.

Applicant :INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, 17 TARATOLA ROAD, CALCUTTA-700088, WEST BENGAL, INDIA.

Inventor : 1. P. K. CHATTERJEE, 2. S. K. CHAKRAVARTY, 3. S. NAG, 4. B. L. BANERJEE.

Application No. 1370/Cal/81 filed December 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process of producing sacks and containers from jute fabrics of high strength, rot-proofness, stiffness and stability for potato, onion and green tea leaf comprising the steps of first spinning the jute fibres into yarn then weaving the yarn into fabric of open mesh characterised in that the fabric is treated with 5% polyvinyl alcohol for about 10 to 15 minutes at a temperature of 45° to 50°C, and finally squeezing and drying the fabric, before making the said sack or container.

Compl. specn. 6 pages. Drg. 1 sheet

CLASS : 69-B; 93 155846

Int. Cl : B 22 f 3/16; H 01 h 1/02.

MATERIAL FOR ELECTRIC CONTACTS.

Applicant : DEGUSSA AKTIENGESELLSCHAFT, OF 9 WEISSFRAUENSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. WOLFGANG BOHIM, 2. ROGER WOLMER, 3. MILLI MALIKOWSKI.

Application No. 1382/Cal/81 filed December 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Improved electrical contact material made of silver and *tin oxide* having long service life and lower fusing tendency characterized by the improvement that the said material additionally contains at least one oxide selected from molybdenum oxide and germanium oxide in an amount of 0.05% to 4.09% by weight of the said material, and wherein part of the said additional oxide is replaceable by tungsten oxide.

Compl. specn. 11 pages. Drg. 5 sheets.

CLASS : 27-G 155847

Int. Cl. : E 04 g 1/14.

METHOD OF ERECTING A BUILDING.

Applicant : NAGRON STEEL AND ALUMINIUM B. V. NO. LA DR. LANGEMEYERWEG, 6991 EV RHEDEN, THE NETHERLANDS.

Inventors : AUGUSTINUS WILHELMUS MARIA BERTELS.

Application No. 1412/Cal/81 filed December 11, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A method of erecting a building (1), in which panels (6) are formed by pouring a filling sustance (8) in chute spaces (3) against standing networks (5), characterized in that the panels (6) are formed by filling with a filling substance chute spaces (3) formed by structural elements (2) consisting of frameworks (10) and networks (5) carried by said frameworks (10).

Compl. specn. 8 pages. Drg. 4 sheets.

CLASS : 33-A & D 155848

Int. Cl. : B 22 d 11/00, 35/06.

COOLANT CONTROL IN EM CASTING.

Applicant : KAISER ALUMINUM & CHEMICAL CORPORATION, OF 300 LAKESIDE DRIVE, OAKLAND, CALIFORNIA 94643, UNITED STATES OF AMERICA.

Inventor : DAVID GEORGE GOODRICH.

Application No. 12/Cal/82 filed January 2, 1982.

Approved office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

In the method of continuous or semicontinuous casting of light metal products wherein molten metal is introduced into the feed end of an annular electromagnetic inductor, wherein the shape of the molten metal is controlled as it solidifies or partially solidified in the inductor by means of forces generated by an lectromagnetic field and wherein coolant is applied to the surface of the solidified or partially solidified metal which emerges from the discharge end of said electromagnetic inductor, the improvement comprising :

(a) directing a first stream of liquid coolant around the periphery of the emerging metal at an angle of about 5° to 40° from the inductor axis and in the direction away from the discharge end of the electromagnetic inductor;

(b) directing a second stream of fluid around the periphery of the emerging metal at an angle between about 20° and 95° from the first stream so that both first and second streams converge to form a confluent stream at a position disposed a short distance away from the emerging metal surface and the confluent stream then contacts the metal surface at a desired location depending upon the volume and velocity of the two streams, with the sum of the angle between the first stream and the inductor axis and the angle between the first and the second stream not exceeding 125°; and

(c) controlling the volume or velocity or both the volume and velocity of the second fluid stream at elevated levels at the start of casting in order to direct the confluent coolant stream to an impact area on the emerging metal which is as close as possible to the discharge end of the electromagnetic inductor and when the butt of the ingot or billet passes the area of coolant impact, decreasing the volume or velocity or both the volume and velocity of the second fluid stream so that the area of coolant impact on the ingot or billet is moved farther away from the discharge end of the inductor than at the start of casting.

Compl. specn. 12 pages. Drg. 2 sheets.

CLASS : 126-D 155849

Int. Cl. : G 01 r 29/08.

AERIAL SIMULATOR FOR GROUND ILLUMINATION BY MEANS OF ELECTROMAGNETIC PULSE ADAPTED FOR DETERMINATION OF THE DIELECTRIC CONSTANT AND CONDUCTIVITY OF A SELECTED GROUND.

Applicant : SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, OF 37, BOULEVARD DE MONTMORENCY, 75016 PARIS, FRANCE.

Inventors : 1. CHARLES RODIERE, 2. MICHEL CROCHET.

Application No. 99/Cal/82 filed January 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

An aerial simulator, for ground illumination by means electromagnetic pulse, adapted for determination of the dielectric constant and conductivity of a selected ground, comprising :

— a generator means for generating electric impulses,

— input connector means connected to said generator means,

— a plurality of at least two conductive layers directed to a ground and connected to said input connector means so as to form a horn, for emitting towards the surface of said ground, at a selected incidence angle, electromagnetic pulses as a result of said electric impulses,

— a buried structure extending said layers underground for guiding said electromagnetic pulses down into the underground at a predetermined depth in said ground so as to illuminate a complex air-ground illuminated zone,

— electromagnetic field sensor means in volume defined by said conductive layers and said buried structure for delivering a signal representative of local resulting electromagnetic field at a predetermined point of said complex air-ground illuminated zone,

— and first and second measuring devices connected to said input connector means and to said sensor means, respectively.

Compl. specn. 25 pages. Drg. 7 sheets.

CLASS : 80-G 155850

Int. Cl. : B 01 d 33/00.

AN APPARATUS FOR EXPRESSING THE LIQUID PHASE FROM A WET MIXTURE.

Applicant : ENVIROTECH CORPORATION OF 3000 SAND HILL ROAD, MENLO PARK CALIFORNIA-94025, UNITED STATES OF AMERICA.

Inventor : ISTEVEN S. DAVIS.

Application No. 152/Cal/82 filed February 6, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims

An apparatus for expressing the liquid phase from a wet mixture comprising :

a frame, a cylindrical primary roll rotatably mounted to said frame, a plurality of cylindrical pressure rolls, means for rotatably mounting the pressure rolls to the frame such that said pressure rolls are parallel to said primary roll and mounted for rotation adjacent the primary roll in circumferentially spaced relationship about said primary roll, separate means for individually pressing each of said pressure rolls against said primary roll an endless filter belt, means for circulating the belt around part of said primary roll to convey the wet mixture successively into the nips between said primary roll and each of said pressure rolls, and said primary roll and at least the upstream one of said pressure rolls each having a layer of elastomeric material on its outer surface adapted to substantially deform under pressure, and the means for individually pressing the upstream pressure roll against the primary roll exerting a preselected biasing force to subject the wet mixture to a relatively gradual rate of increase in pressure.

Compl. specn. 46 pages Drg. 7 sheets

CLASS 15-D, 127-I 155851

Int Cl . F 16 c 11/06, F 16 d 3/16.

BEARING RACE SEAL.

Applicant . DANA CORPORATION, OF 4500 DORR STREET, P.O BOX 1000, TOLEDO, OHIO 43697, U. S. A

Inventor · BARRY LEE ZACKRISSON.

Application No. 181/Cal/82 filed February 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A bearing race seal disposed for use in the interface of trunnion and journal yoke members of a universal joint, including an annular metallic backbone having a generally U-shaped cross section, and further including an elastomeric coating member bonded to portions of said backbone, characterised in that said elastomeric coating member is provided with an integral external sealing lip which is disposed for engagement with a trunnion, and in that said elastomeric coating member is provided with an integral external wall portion which is disposed for engagement with a journal yoke member

Compl. specn. 10 pages Drg. 1 sheet.

CLASS : 121 155852

Int. Cl. . H 05 b 33/26; G 09 f 13/22.

THIN FILM ELECTROLUMINESCENCE STRUCTURE.

Applicant : OY LOHJA AB OF 08700 VIRKKALA, FINLAND.

Inventors . 1. MR. JORMA OLAVI ANTSON, 2. MR SVEN GUNNAR, 3 MR. ARTO JUHANI PAKKALA, 4 MR. JARMO SKAPP, 5. MR. TUOMO SAKARI SUNTOLA, 6. MR MARKKU YLILAMMI.

Application No. 192/Cal/82 filed February 19, 1982.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A thin film electroluminescence structure comprising

(a) at least one substrate layer made of, e g glass;

(b) at least one first electrode layer;

(c) at least one second electrode layer disposed at a distance from the first electrode layer,

(d) a luminescence layer disposed between the first and the second electrode layer,

(e) a chemically protective layer made of an electrically conductive material and disposed between the luminescence layer and the first electrode layer in direct contact with the latter, and having a thickness of 50 to 1000 nm; and

(f) a chemically protective and current limiting layer made of a material selected from the group consisting of tantalum titanium oxide (TTO), barium-titanium oxide ($Ba_xTi_yO_z$), lead-titanium oxide (PbTiO ), and $Ta_2O_5$ and disposed between and in direct contact with the luminescence layer and the second electrode layer and having a thickness of 50 to 1000 nm, preferably 100 to 300 nm.

Compl. specn. 14 pages. Drg. 4 sheets.

CLASS 28-C 155853

Int Cl. C 10 b 43/00.

A PROCESS FOR IMPROVING THE CALORIEIC VALUE OF A COMBUSTIBLE GAS AND A CENTRIFUGAL SEPARATOR THEREFOR.

Applicant . KRW ENERGY SYSTEMS INC., OF THREE GREENWAY PLAZA, HOUSTON, TEXAS 77046, UNITED STATES OF AMERICA.

Inventors . 1. MICHAEL JAMES ARTHURS, 2. CARL EDWARD SCHENONE, 3. SURES CHANDRA PURUSHOTTOM TENDULKAR.

Application No. 301/Cal/82 filed March 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

6 Claims

A process for improving the calorific value of a combustible gas by treating in a centrifugal separator a mixture of combustible gas and matter discharged from a carbonaceous material gasifier at a temperature above its liquidus temperature characterised in that said mixture is directed onto an interior surface area (64) of said centrifugal separator (32), which surface area is maintained at a temperature of said matter.

Compl. specn. 12 pages. Drg. 5 sheets

CLASS : 126-A & C. 155854.

Int. Cl. G 01 n 31/00, 33/00

APPARATUS FOR THE DETERMINATION OF THE EXPLOSIVE NATURE OF AN ATMOSPHERE WITHOUT AMBIGUITY ON THE EXPLOSIVE GAS CONTENT OF SAID ATMOSPHERE.

Applicant . CHARBONNAGES DE FRANCE, OF 9 AVENUE PERCIER, 75008 PARIS, FRANCE

Inventors . 1 MAURICE BOUTONNAT 2 GERARD ROSE.

Application No. 690/Cal/82 filed June 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta

8 claims

An apparatus for the determination of the explosive nature of an atmosphere without ambiguity on the explosive gas content of said atmosphere, comprising a voltage source, a detector cell and a flushing pump associated therewith a suitably graduated galvanometer, a measurement push-button, characterized by a cylinder of pressurized combustible gas, a valve and a duct connecting said cylinder to said cell, a pushrod associated with said valve and a further pushbutton accessible externally of said explosimeter for actuating said pushrod in order to execute said second measurement.

Compl. specn. 19 pages. Drgs. 4 sheets.

CLASS : 116-C. 155855.

Int. Cl. E 65 g 17/00.

CONVEYOR.

Applicant : MASCHINENFABRIK BESTA, OF VOISWEG 1—5, D-4030 RATINGEN 1, WEST GERMANY.

Inventor : 1. HANS JURGEN MEYER.

Application No. 1022/Cal/82 filed September 2, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

9 claims

A conveyor having an elongate conveyor box, along which material conveyed by the conveyor is passed, a substantially cylindircal housing surrounding the conaeyor box and at least partly spaced from the conveyor box, so as to define a longitudinal cavity between them, a bulkhead at or adjacen. one end of the said cavity normally providing a dust-tight seal between the caviy and the interior of the conveyor box, and a pressure-burst plate ddisposed in the bulkhead.

Compl. speen. 10 pages. Drgs. 2 sheets.

CLASS : 42-C. 155856.

Int. Cl. A 24 c 5/00.

CIGARETTE FILTER.

Applicant : BROWN & WILLIAMSON TOBACCO CORPORATION 1600 WEST HILL STREET, LUISVILLE, KENTUCKY, U.S.A.

Inventor : 1. CHARLES GRANVILLE LAMB.

Application No. 129/Cal/83 filed Februaiy 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

10 claims

A filter for a cigarette comprising :

a porous filter rod of generally cylindrical configuration;

an air permeable wrapper extending longitudinally along said filter rod from one end thereof to the other end and circumscribing said rod leaving flow-through opposed end of said filter rod;

said wrapper being formed with at least one groove embedded into said filter rod, said at least one groove being open at one end of said filter rod and extending therefrom in a generally longitudinally direction of said filter rod;

means for rendering the embedded wall of said at least one groove defined by said wrapper material impermeable to air and smoke, at least a portion of said wrapper outside of said at least one groove remaining permeable to air; and

tipping material extending longitudinally of and circumscribing said wrapped filter rod, said tipping material being air permeable permitting venilating air flow therethrough into said at least one groove, and also permitting ventilating air flow therethrough into said filter rod through said permeable portion of said wrapper to co-mingle with and dilute smoke flowing through said filter rod from one end to the other end of said filter rod.

Compl. speen. 15 pages. Drgs. 2 sheets.

CLASS : 55-$D_2$; 32-$F_2$(a) & (b). 155857.

Int. Cl. A 01 n 9/00; C 07c 123/00.

A PRCESS FOR PREPARING NOVEL HALOACETAMIDINES.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : 1. EUGENE GORDEN TEACH.

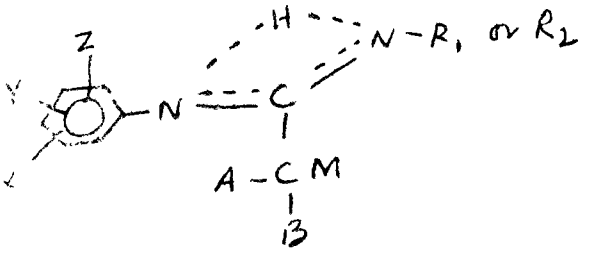
Application No. 230/Cal/83 filed February 24, 1983.

Divisional of Application No. 1260/Cal/80 dated 6th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

A process for preparing novel haloacetamidines having the formula shown in Fig. 4 of the accompanying drawings




in which A and B are independently selected from hydrogen, fluorine, chlorine, bromine and methyl, provided that at least one of A or B is other than hydrogen; M is hydrogen or methyl;

X is selected from the group consisting of trifluoromethyl, lower alkyl having 1 to 3 carbon atoms, inclusive, nitro, chloro, bormo, fluoro, cyano, lower alkoxy having 1 to 3 carbon atoms, inclusive, trifluoromethylthio and 2, 3-diloweralkyl ureido in which each lower alkyl has from 1 to 2 carbon atoms, inclusive;

Y is selected from the group consisting of hydrogen, lower alkyl having 1 to 3 carbon atoms, inclusive, chloro, fluoro, ritro, trifluoromethyl and lower alkoxy having 1 to 3 carban atoms, inclusive;

Z is selected from the group consisting of hydrogen and chloro;

$R_1$ is selected from the group consisting of hfdrogen, alkyl having 1 to 6 carbon atoms, inclusive, and alkyl;

$R_2$ is selected from the group consisting of alkyl having 1 to 6 carbon atoms, inclusive, alkyl, benzyl, hydroxyethyl, alkynyl having 3 to 4 carbon atoms, inclusive, N-alkylamido in which the alkyl has 1 to 3 carbon atoms, inclusive, alkoxyalkyl having 2 to 6 carbon atoms, inclusive, dialkoxyalkyl having 3 to 6 carbon atoms, inclusive, alkoxy having 1 to 4 carbon atoms, inclusive, cyanoalkyl having 2 to 4 carbon atoms, inclusive, substituted phenyl wherein said substituent is selected from the group trifluoromethyl, dichloro and 3,3-dimethylureido; and

R and $R_2$ taken together with the nitrogen is selected from the group consisting of alkyl substituted oxazolidwyl wherein said oxazolidyl is substituted 1, 2 or 3 time with alkyl having from 1 to 3 carbon atoms, inclusives morpholinyl, piperidinyl and pyrrolidinyl, which process comprises reacting an acylchloride with a primary amine to produce the corresponding amide which amide is reacted with phosphorous pentachloride in phosphorous oxychloride as a solvent to produce imidoyl chloride, said imidoyl chloride is further reacted with

substitutted aniline to produce substituted acetamidine as illustrated in Fig. 5 of the drawings

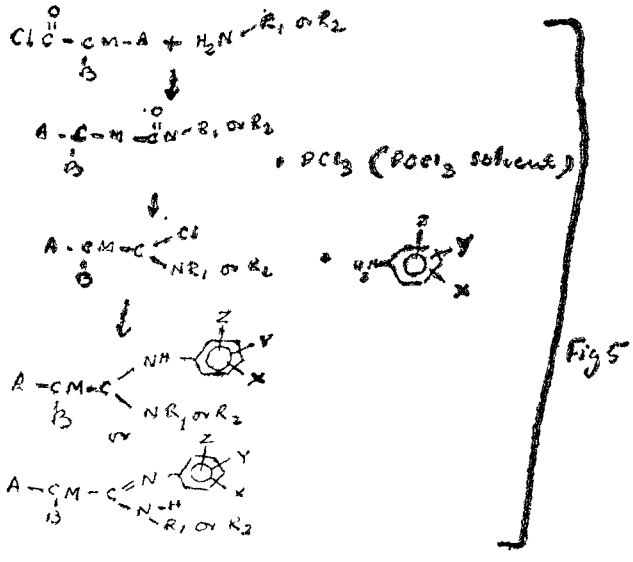


Fig 5

wherein A, B, M, R, $R_2$, X, Y and Z have the same significance as defined above.

Compl. specn. 66 pages. Drgs. 2 sheets.

CLASS : 72-B. 155858.

Int. Cl. C 06 b 1/00, 15/00 19/00.

A METHOD OF PREPARING AN EXPLOSION INHIBITED MULTIPLE COMPONENT COMPOSITION FOR USE IN ELECTROLESS DEPOSITION OF SILVER.

Applicant : LONDON LABORATORIES LIMITED, AT 15 LUNAR DRIVE, WOODBRIDGE, CONNECTICUT 06525, UNITED STATES OF AMERICA

Inventor : I. JOSEPH E. SOLTYS.

Application No. 351/Cal/83 filed March 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972, Patent Office, Calcutta.

7 claims

A method of preparing an explosion inhibited multiple-component composition for use in electroless deposition of silver on a work surface, said multiple-component composition comprising the following components :—

(A) a concentrated aqueous silvering solution comprising ammoniacal silver salt;

(B) a concentrated aqueous solution of strong alakali, and

(C) a reducer (having the meansing known in the art) for the ammoniacal silver salt, present in an amount sufficient to effectuate said deposition of silver;

the method of rendering said multiple-component composition substantially explosion-free comprising incorporating in component (A) and/or component (B) sufficient amount of explosion inhibitor comprising a polyhydric alcohol having 4 to 6 carbon atoms and effective as reducer for the deposition of silver and sufficient excess of ammonium ion, to stabilize and prevent deterioration of said polyhydric alcohol in said aqueous silvering solution

Compl. specn. 41 pages Drgs. nil.

Ind. Class : 126A. 155859.

Int. Cl. . G01r—17/00.

Title : AN IMPEDENCE COMPARATOR.

Applicants : PEICO ELECTRONICS & ELECTRICALS LIMITED, SHIVSAGAR ESTATE, BLOCK 'A', MAHARASHTRA, BOMBAY-18, INDIA.

Inventor . VIDYUTKUMAR MADHAO BAPAT.

Application No. : 334/Bom/1981 filed Dec, 9, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

6 claims

An impedance comparator comprising an oscillator, a controlled oscillator, a signal difference detector and an indicator, all being connectable to a doc power supply to derive power for their operation, the ouput of said oscillator and the output of said controlled oscillator being connected to the input of said signal difference detector, the output of said signal difference detector being connected to the input of said controlled oscillator and the input of said indicator, the impedance under measure being connectable to the input of said oscillator or said controlled oscillator, said oscillator generating and giving out a signal proportional to said impedance under measure, said controlled oscillator generating and giving out a reference voltage signal, said detector comparing the output signal of said oscillator and the output signal of said controlled oscillator and giving out a signal to said indicator when the output signal of said controlled oscillator differs from the ouput signal of said oscillator, the output signal of said detector being a function of said impedance under measure and indicated on said indicator.

Compl. specn. 9 pages; Drgs. 2 sheets.

CLASS : 130G. 155860.

Int. Class : C22b 9/00.

"APPARATUS FOR REFINING MOLTEN ALUMINIUM".

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK-10017, UNITED STATES OF AMERICA.

Inventor : JOHN FRANKLIN PELTON.

Application for Patent No. 197/Del/81 filed on 8th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 claims

In an apparatus for refining molten metal comprising, in combination :

(a) a vessel having four compartments : an inlet compartment, first and second refining compartments separated by a baffle, and an exit compartment separated from the first refining compartment by a common wall, the last three compartments sharing a common bottom surface, wherein (i) the inlet compartment provides a passageway for the molten metal running from the outside of the vessel to the top section of the first refining compartment, (ii) except as provided in (iii), the baffle is constructed in such a manner that it only permits the passage of molten metal over the top of the baffle, (iii) the bottom section of the second compartment is connected to the exit compartment by an exit tube having an opening on each end, a top wall, two side walls and a bottom wall, said exit tube (1) passing through the baffle and the first refining compartment, (2) having its bottom wall residing on the common bottom surface; and (3) having its inlet end opening into the second refining compartment and its outlet

end opening into the exist compartment and (iv) the exist compartment provides a passageway to the outside of the vessel;

(b) one rotating gas distributing device disposed at about the centre of each refining compartment, said device comprising a shaft having drive means at its upper end and a rotor fixedly attached to its lower end, the upper end being positioned in the top section of the compartment and the lower end being positioned in the bottom section of the compartment,

the improvement comprising providing an exit tube wherein (i) the top wall slants downward from inlet end to oulet end at an angle of 5 to 15 degrees from the horizontal and

(ii) the ends of the exit tube are about flush with the baffle and the wall dividing the first refining compartment and the exit compartment.

Compl. specn. 15 pages. Drgs. 2 sheets.

CLASS : 206G. 155861.

Int. Class : H03d 3/22, 7/00.

"A FREQUENCY MODULATED WAVE RECEIVER".

Applicant : THOMSON-BRANDT OF 173 Bl. HAUSSMANN, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventor : REMI DUTASTA.

Application for Patent No. 218/Del/81 filed on 13th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 claims

A frequency modulated wave receiver comprising a combined phase-locked loop frequency-demodulator, a frequency-synthetizer circuit, front stages including a heterodyne mixer whose first signal input is coupled to an antenna and whose second local oscillator input is connected to the output of a fixed-frequency local oscillator, and an intermediate frequency channel whose signal input is connected to the output of said mixer; wherein said combined phase-locked loop frequency-demodulator and frequency-synthetizer circuit comprises in combination : a voltage conrolled variable frequency oscillator having a frequency-control input; a first phase comparator whose first input is connected to an output of the front stages and whose second input is connected to the oscillator output; a first low or bandpass filter connected to the output of said first phase comparator; a fixed-frequency crystal-controlled oscillator; a frequecy divider whose input is connected to the output of the crystal-controlled oscillator and which includes in cascade : a prescaler having a constant dividing factor and a programmable divider whose variable dividing factor is controlled digitally by means of a digital control circuit; a second phase comparator whose first input is connected to the output of the programmable divider and whose second input is connected to the output of the voltage-controlled oscillator; a second low-pass filter whose input is connected to the output of said second phase comparator and an analogue adder whose first input is connected to the output of the first filter; which is the demodulator output too, whose second input is connected to the output of the second filter, and whose output is connected to the frequency-control input of said voltage-controlled oscillator, thus forming two combined phase-locked loops respectively for demodulation and frequency-synthesis, which are both closed over the same voltage-controlled oscillator.

Compl. specn. 19 pages. Drgs. 2 sheets.

CLASS : 175H, 107G. 155862

Int. Class : F02f 3/16.

"IMPROVEMENTS IN OR RELATING TO A PISTON FOR A RECIPROCATING PISTON MACHINE PARTICULARLY AN INTERNAL COMBUSTION ENGINE".

Applicant : SOCIETE D'ETUDES DE MACHINES THERMIQUES S.E.M.T. OF 2 QUAI DE SEINE—93202, SAINT DENIS FRANCE A FRENCH BODY CORPORATE.

Inventors : BERNARD MUNOZ AND ERIC TAVENNE.

Application for Patent No. 220/Del/81 filed on 13th April, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 claims

A piston for a reciprocating piston machine, particularly an internal combustion engine, of the type swivelled by means of a piston pin to the associated connecting rod small end and consisting of tow members constituting the piston head and the piston skirt, respectively, assembled together, the piston head comprising, on its end surface adjacent to the piston skirt, a central hollow constituting a portion of a cooling chamber, the other portion of the said chamber being constituted by a central hollow provided in the adjacent end surface of the central portion of the piston skirt; and comprising a cooling, and lubricating system, characterized in that the said central portion of the piston skirt is constituted by a substantially cylindrical hollowed central boss, and in that the connection of the said boss to the peripheral cylindrical surface of the said piston skirt, is by means of a peripheral annular crown with a flat upper surface perpendicular to the axis of the piston and delimited inwardly by a shoulder which is centered in the piston head hollow, the upper surface of the said crown constituting the joint surface between the piston skirt and the piston head, and upon which bears the peripheral annular flat surface of the piston head delimited around aid piston head hollow, the said substantially cylindrical hollow of the central boss being provided with radial ribs to better distribute the efforts transmitted by the piston head.

Compl. specn. 14 pages. Wrgs. 2 sheets.

## PATENTS SEALED

132143 141987 146203 148413 148584 148675 150642 152207 152224 152276 152585 152785 152834 152883 152968 152979 152984 152988 152990 152995 152996 152997 153013 153014 153015 153023

## AMENDMENT PROCEEDINGS UNDER SECTION 57(6)

In the course of proceedings in opposition to the grant of a patent in respect of application for patent No. 149661, the acceptance of the complete specification of which was notified in the Gazette of India Part-III, Section 2, dated the 6h March, 1982, the descriptions in page 4 and claim 2 in page 7 of the specification have been amended and page 6 has been deleted and removed from the text of the description.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that British Steel Corporation, a British Corporation incorporated and existing under the Iron and Steel Act 1967, of 33 Grosvenor Place, London CWIX 7JG, England, have made an application under Section 57 of Patents Act 1970 for amendment of specification of their Patent application No. 153690 for "An apparatus for and a method of continuous casting of metal Strip and fragmenting the Strip into suitable size". The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700 017, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

[Claim under Section 20 (1)]

In pursuance of leave granted under Section 20(1) of the Patents Act, 1970 the application No 152053 has been allowed to proceed in the name of SANTANU ROY, an Indian Citizen of 13, Nanda Kumar Chowdhury Lane, Calcutta-700 006, India.

[Claim under Section 20 (1)]

In pursuance of leave granted under Section 20(1) of the Patents Act, 1970, the application No. 152053 has been allowed to proceed in the name of SANTANU ROY, an Indian Citizen; of 13, Nanda Kumar Chowdhury Lane, Calcutta-700006, India.

## RENEWAL FEES PAID

124795 125207 125655 126012 131406 134539 134540 134541
134542 134628 134737 134748 135015 135578 136758 137248
137957 138489 138537 138595 138680 138748 138925 139216
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152760 152766 152769 152784 152824 152921 152949 152951

## CESSATION OF PATENTS

147580 147966 149165 149405 149882 150213 150225

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 154416 & 154417. Ganesh Metal Works, 98, Nehru Street, Choolaimedu High Road, Kodambakkam, Madras-600094, Tamil Nadu, India, a partnership firm. "Silencers of motorcycles'. May 16, 1984.

Class. 1. No. 154418. Ganesh Metal Works, 98 Nehru Street, Choolaimedu High Road, Kodambakkam, Madras-600 094, Tamil Nadu, India a partnership firm. "Mudguards for motorcycles'. May 16, 1984.

Class . 1. No. 155200. Prakash Vithal Karandikar & Subhash Shankar Ambike of 2163/26, Sadashiv Peth, Pune-411030, Maharashtra, India. Indian Nationals. "Soldering Iron Stand". December 20, 1984.

Class. 1. No. 155345. Safari Industries (India) Private Ltd. 107, Khetani Textile Compound, Bazar Ward, Kurla, Bombay-400070, Maharashtra, India. "Suitcase Lock". January 1, 1985.

Class. 3. No. 154893. Dilip Purshotam Somaya, Indian of A-3, Amarjivan Co-op. Housing Society, 273, S. Bapat Marg, Matunga Road, Bombay-400 016, Maharashtra, India. "Fastener". September 28, 1984.

Class. 3. No. 155132. Manapurath Chacko Abraham, Indian of C-3, Rajat Rekha Society, 142/6, Jaiprakash Road, Andheri (West), Bombay-400058, Maharashtra, India. "An anti-theft device". December 4, 1984.

Class. 3. No. 155187. Narendra Kumar Jain, Indian of 82-B, Mehar Apartments, Anstey Road, Bombay-400026, Maharashtra, India. "Trolley". December 19, 1984.

Class. 12. No. 155094. Fibreglass Mouldings Corporation, a Partnership Firm of 75C, Park Street, Calcutta-700016, W.B., India. "Tent/Shelter". November 24, 1984.

R. A. ACHARYA,
*Controller General of Patents, Designs and Trade Marks.*

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